RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/540.084
Source:	PUT/10
Date Processed by STIC:	6/29/05

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PCT

RAW SEQUENCE LISTING DATE: 06/29/2005
PATENT APPLICATION: US/10/540,084 TIME: 14:01:11

Input Set: A:\Sequence Listing (RTF Format).txt
Output Set: N:\CRF4\06292005\J540084.raw

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3 <110> APPLICANT: Collins, Mary et al.
      5 <120> TITLE OF INVENTION: ANTIBODIES AGAINST PD-1 AND USES THEREFOR
      7 <130> FILE REFERENCE: 08702.6098-00000
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/540,084
C--> 9 <141> CURRENT FILING DATE: 2005-06-17
      9 <160> NUMBER OF SEQ ID NOS: 58
     11 <170> SOFTWARE: PatentIn version 3.1
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     21 acctgcgcta tttctggtgg ctccatcggc tctggtggct ccatcagaag tactaggtgg 120
     23 tggagttggg tccgccagtc cccagggaag gggctggagt ggataggcga aatctatcat 180
     25 agtgggagca ccaactacaa cccgtccctc aagagtcgcg tcaccatatc actagacaag 240
     27 tetaggaate actteteet gaggetgaae tetgtgaeeg eegeggaeae ggeegtttat 300
     29 tactgtgcga gacaggacta cggtgactcc ggcgactggt acttcgatct gtggggcaag 360
     31 gggacaatgg tcaccgtctc ctca
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     35 <211> LENGTH: 128
     36 <212> TYPE: PRT
     37 <213> ORGANISM: Homo sapiens
     39 <400> SEQUENCE: 2
     41 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Val Val Lys Pro Ser Gly
     44 Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Gly Ser Ile Gly Ser Gly
                    20
                                        25
     47 Gly Ser Ile Arg Ser Thr Arg Trp Trp Ser Trp Val Arg Gln Ser Pro
                                    40
     50 Gly Lys Gly Leu Glu Trp Ile Gly Glu Ile Tyr His Ser Gly Ser Thr
                                55
     53 Asn Tyr Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Leu Asp Lys
     56 Ser Arg Asn His Phe Ser Leu Arg Leu Asn Ser Val Thr Ala Ala Asp
     57
     59 Thr Ala Val Tyr Tyr Cys Ala Arg Gln Asp Tyr Gly Asp Ser Gly Asp
                    100
                                        105
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     62 Trp Tyr Phe Asp Leu Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser
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     65 <210> SEQ ID NO: 3
     66 <211> LENGTH: 330
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67 <212> TYPE: DNA

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73 teetgeacce geageagtgg eageattgee ageaactetg tgeagtggta ceageagege 120
75 ccgggcagtt cccccaccac tgtgatctat gaggataacc aaagaccctc tggggtccct 180
77 gateggttet etggeteeat egacagetee tecaactetg ceteceteac egtetetgga 240
79 ctgaagactg aggacgaggc tgactactac tgtcagtctt ctgatagcag cgctgtggta 300
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91 Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
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93 Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn
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96 Ser Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
97
99 Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
                             55
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102 Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Val Ser Gly
105 Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ser Asp Ser
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108 Ser Ala Val Val Phe Gly Ser Gly Thr Lys Leu Thr Val Leu
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121 cctggacaag ggcttgagtg gatgggatgg atcagcgctt acaatggtaa cacaaactac 180
123 gcacagaage tecagggeag agteaceatg accacagaea catecaegaa cacageetae 240
125 atggagetga ggageetgag atetgaegae aeggeegtgt attactgtge gagagaegeg 300
127 gattatagta gtgggtctgg gtactggggc cagggaaccc tqgtcaccgt ctcctca
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131 <211> LENGTH: 119
132 <212> TYPE: PRT
133 <213> ORGANISM: Homo sapiens
135 <400> SEQUENCE: 6
137 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
\cdot140 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Arg Phe Thr Ser Tyr
143 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
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146 Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu 147 55 149 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Asn Thr Ala Tyr 70 75 150 65 152 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 153 154 Ala Arg Asp Ala Asp Tyr Ser Ser Gly Ser Gly Tyr Trp Gly Gln Gly 155 100 105 157 Thr Leu Val Thr Val Ser Ser 158 115 160 <210> SEQ ID NO: 7 161 <211> LENGTH: 324 162 <212> TYPE: DNA 163 <213 > ORGANISM: Homo sapiens 165 <400> SEQUENCE: 7 166 tectatgage tgacteagee acceteggtg teagtgteee eaggacagae ggecaggate 60 168 acctqttctg qaqatqcatt qccaaaqcaa tatqcttatt qqtaccagca qaaqccaggc 120 170 caggccctq tgatgqttat atataaaqac actgagaggc cctcagggat ccctgagcga 180 172 ttetetgget ccagetcaqq qacaaaaqte aegttqaeca tcagtggagt ccaggcagaa 240 174 gacgaggctg actattattg tcaatcagca gacaacagta ttacttatag ggtgttcggc 300 176 ggagggacca aggtcaccgt ccta 179 <210> SEQ ID NO: 8 180 <211> LENGTH: 108 181 <212> TYPE: PRT 182 <213> ORGANISM: Homo sapiens 184 <400> SEQUENCE: 8 185 Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln 186 1 188 Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Gln Tyr Ala 189 20 25 30 191 Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Met Val Ile Tyr 35 194 Lys Asp Thr Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser 50 197 Ser Ser Gly Thr Lys Val Thr Leu Thr Ile Ser Gly Val Gln Ala Glu 198 65 70 75 200 Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Asn Ser Ile Thr Tyr 90 203 Arg Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu 204 100 105 206 <210> SEQ ID NO: 9 207 <211> LENGTH: 357 208 <212> TYPE: DNA 209 <213> ORGANISM: Homo sapiens 211 <400> SEQUENCE: 9 212 caggtgcagc tggtgcaatc tggggctgag gtgaagaaac ctggggcctc agtgagggtt 60 214 tcctgcaagg catctggata cacctcacc agttactata ttcactgggt gcgacaggcc 120

216 cctggacaag ggcttgagtg gatgggaata atcaacccta gaggtgccac cataagctac 180 218 gcacagaagt tccagggcag agtcaccatg accagggaca cgtccacgag tacagtctac 240

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/540,084**DATE: 06/29/2005

TIME: 14:01:11

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220 atggaactga gaaacttgaa atctgaggac acggccctgt attactgtgc tactgcaggc 300 222 atctatggtt ttgactttga ctactggggc agaggaaccc tggtcaccgt ctcctca 225 <210> SEQ ID NO: 10 226 <211> LENGTH: 119 227 <212> TYPE: PRT 228 <213> ORGANISM: Homo sapiens 230 <400> SEQUENCE: 10 231 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 234 Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Thr Leu Thr Ser Tyr 235 20 237 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 240 Gly Ile Ile Asn Pro Arg Gly Ala Thr Ile Ser Tyr Ala Gln Lys Phe 55 243 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 75 246 Met Glu Leu Arg Asn Leu Lys Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 247 249 Ala Thr Ala Gly Ile Tyr Gly Phe Asp Phe Asp Tyr Trp Gly Arg Gly 250 100 105 252 Thr Leu Val Thr Val Ser Ser 253 115 255 <210> SEQ ID NO: 11 256 <211> LENGTH: 333 257 <212> TYPE: DNA 258 <213> ORGANISM: Homo sapiens 260 <400> SEQUENCE: 11 261 cagtetgeec tgaeteagec tgeeteegtg tetgggtete etgggeagte gateaceate 60 263 teetgeactg gaaccagtaa tgacgttggt ggttataatt atgteteetg gtaccaacat 120 265 cacccaggca aagcccccaa actcatcatt tatgatgtca ctaaccggcc ctcaggggtt 180 267 tetgateget tetetggete eaagtetgge aacaeggeet eeetgaeeat etetgggete 240 269 ctggctgagg acgagggtga ttattactgc agctcataca caattgttac caatttcgag 300 271 gttcttttcg gcggagggac caagctgacc gtc 333 274 <210> SEQ ID NO: 12 275 <211> LENGTH: 111 276 <212> TYPE: PRT 277 <213> ORGANISM: Homo sapiens 279 <400> SEQUENCE: 12 281 Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln 10 284 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Asn Asp Val Gly Gly Tyr 285 20 25 287 Asn Tyr Val Ser Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Leu 290 Ile Ile Tyr Asp Val Thr Asn Arg Pro Ser Gly Val Ser Asp Arg Phe 293 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu 294 65 70

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PATENT APPLICATION: US/10/540,084 TIME: 14:01:11

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364 ccaggaacgg cccccaaact cctcatctat ggtaataatc agcggccctc aggggtccct 180 366 gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccag 240 368 tctgagaatg aggctgatta ttactgtgca gcatgggatg acagcctgaa tggtccggta 300

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370 ttcggccgag ggaccaaggt caccgtccta ggtgag

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VERIFICATION SUMMARY

DATE: 06/29/2005

PATENT APPLICATION: US/10/540,084

TIME: 14:01:12

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Output Set: N:\CRF4\06292005\J540084.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date